

Table 1
Sample Locations, Depths, and Analyses

Data Gaps Sampling and Analysis Plan
 Rolling Knolls Landfill Superfund Site
 Chatham, New Jersey

Sample ID	Sample Media	Depth Interval (Feet)	Sample Collection Method	Laboratory Analyses												Notes		
				VOCs	SVOCs	SVOCs - SIM	PCBs (as Aroclors)	Pesticides	TAL Metals and Cyanide	PCB Congeners, Dioxins, Furans	Full TCL/TAL	TAL Metals and Cyanide (unfiltered)	TAL Metals and Cyanide (filtered)	Low-Level Mercury	Hardness		pH, TOC, Grain Size	
Soil Samples																		
SS-125	Soil	0.0-1.0	Macrocore			X	X					X						
SS-126	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-125
SS-127	Soil	0.0-1.0	Macrocore			X	X				X	X						
SS-128	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-127
SS-129	Soil	0.0-1.0	Macrocore			X	X				X	X						
SS-130	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-129
SS-131	Soil	0.0-1.0	Macrocore			X	X					X						
SS-132	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-131
SS-133	Soil	0.0-1.0	Macrocore			X	X					X						
SS-134	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-133
SS-135	Soil	0.0-1.0	Macrocore			X	X					X						
SS-136	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-135
SS-137	Soil	0.0-1.0	Macrocore			X	X				X	X						
SS-138	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-137
SS-139	Soil	0.0-1.0	Macrocore			X	X				X	X						
SS-140	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-139
SS-141	Soil	0.0-1.0	Macrocore			X	X					X						
SS-142	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-141
SS-143	Soil	0.0-1.0	Macrocore			X	X					X						

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SS-144	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-143
SS-145	Soil	0.0-1.0	Macrocore			X	X					X						
SS-146	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-145
SS-147	Soil	0.0-1.0	Macrocore			X	X					X						
SS-148	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-147
SS-149	Soil	0.0-1.0	Macrocore			X	X					X						
SS-150	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-149
SS-151	Soil	0.0-1.0	Macrocore			X	X					X						
SS-152	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-151
SS-153	Soil	0.0-1.0	Macrocore			X	X					X						
SS-154	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-153
SS-155	Soil	0.0-1.0	Macrocore			X	X					X						
SS-156	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-155
SS-157	Soil	0.0-1.0	Macrocore			X	X					X						
SS-158	Soil	0.0-1.0	Macrocore															*Contingent on sample SS-157
SS-159	Soil	0.0-1.0	Macrocore			X	X			X	X							Congeners, dioxins, and furans will be analyzed on up to 2 samples if PCBs are detected in the TAL analysis.
SS-160	Soil	0.0-1.0	Macrocore			X	X			X	X							
SS-161	Soil	0.0-1.0	Macrocore			X	X			X	X							
SS-162	Soil	0.0-1.0	Macrocore			X	X			X	X							
SS-163	Soil	0.0-1.0	Macrocore			X	X			X	X							
SS-164	Soil	0.0-1.0	Macrocore			X	X			X	X							

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Temporary Monitoring Wells																
TWP-1	Groundwater	TBD	Macrocore			X					X	X				
TWP-2	Groundwater	TBD	Macrocore			X					X	X				
TWP-3	Groundwater	TBD	Macrocore			X					X	X				
TWP-4	Groundwater	TBD	Macrocore			X					X	X				
TWP-5	Groundwater	TBD	Macrocore			X					X	X				
TWP-6	Groundwater	TBD	Macrocore			X					X	X				
TWP-7	Groundwater	TBD	Macrocore			X					X	X				
TWP-8	Groundwater	TBD	Macrocore			X					X	X				
TWP-9	Groundwater	TBD	Macrocore			X					X	X				
Permanent Monitoring Wells (Existing)																
MW-1	Groundwater	14.5	Low flow			X					X	X				
MW-2	Groundwater	12.5	Low flow			X					X	X				
MW-3	Groundwater	12.5	Low flow			X					X	X				
MW-4	Groundwater	12.5	Low flow			X					X	X				
MW-5	Groundwater	12.5	Low flow			X					X	X				
MW-6	Groundwater	12.5	Low flow			X					X	X				
MW-7	Groundwater	12.5	Low flow			X					X	X				
MW-8	Groundwater	12.5	Low flow			X					X	X				
MW-9	Groundwater	12.5	Low flow			X					X	X				
MW-10	Groundwater	12.5	Low flow			X					X	X				
X-1	Groundwater	18	Low flow			X					X	X				

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X-2	Groundwater	20	Low flow			X						X		X				
X-3	Groundwater	23	Low flow			X						X		X				
X-4	Groundwater	15.5	Low flow			X						X		X				
X-5	Groundwater	13.2	Low flow			X						X		X				This well was not sampled during previous sampling activities due to a lack of water.
X-6	Groundwater	13	Low flow			X						X		X				
X-7	Groundwater	8.7	Low flow			X						X		X				This well was not sampled during previous sampling activities due to a lack of water.
Permanent Monitoring Wells (Proposed)																		
MW-11	Groundwater	TBD	Low flow			X						X		X				
MW-12	Groundwater	TBD	Low flow			X						X		X				
MW-13	Groundwater	TBD	Low flow			X						X		X				
MW-14	Groundwater	TBD	Low flow			X						X		X				
MW-15	Groundwater	TBD	Low flow			X						X		X				
MW-16	Groundwater	TBD	Low flow			X						X		X				
MW-17	Groundwater	TBD	Low flow			X						X		X				
Pore Water Samples																		
PW-1	Pore Water	0.0-0.5	PDB			X						X		X				
PW-2	Pore Water	0.0-0.5	PDB			X						X		X				
Surface Water Samples																		
SW-34	Surface Water	TBD	Teflon-lined bailer/direct dip			X						X		X	X	X		

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SW-35	Surface Water	TBD	Teflon-lined bailer/direct dip			X						X		X	X		
SW-36	Surface Water	TBD	Teflon-lined bailer/direct dip			X						X		X	X		
SW-37	Surface Water	TBD	Teflon-lined bailer/direct dip			X						X		X	X		
SW-38	Surface Water	TBD	Teflon-lined bailer/direct dip			X						X		X	X		
SW-39	Surface Water	TBD	Teflon-lined bailer/direct dip			X						X		X	X		
SW-40	Surface Water	TBD	Teflon-lined bailer/direct dip			X						X		X	X		
SW-41	Surface Water	TBD	Teflon-lined bailer/direct dip			X						X		X	X		
SW-42	Surface Water	TBD	Teflon-lined bailer/direct dip			X						X		X	X		
SW-43	Surface Water	TBD	Teflon-lined bailer/direct dip			X						X		X	X		
SW-44	Surface Water	TBD	Teflon-lined bailer/direct dip			X						X		X	X		

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Sediment Samples																	
SD-34	Sediment	0.0 - 1.0	Grab sample – Encore sampler			X						X					X
SD-35	Sediment	0.0 - 1.0	Grab sample – Encore sampler			X						X					X
SD-36	Sediment	0.0 - 1.0	Grab sample – Encore sampler			X						X					X
SD-37	Sediment	0.0 - 1.0	Grab sample – Encore sampler			X						X					X
SD-38	Sediment	0.0 - 1.0	Grab sample – Encore sampler			X						X					X
SD-39	Sediment	0.0 - 1.0	Grab sample – Encore sampler			X						X					X
SD-40	Sediment	0.0 - 1.0	Grab sample – Encore sampler			X						X					X
SD-41	Sediment	0.0 - 1.0	Grab sample – Encore sampler			X						X					X
SD-42	Sediment	0.0 - 1.0	Grab sample – Encore sampler			X						X					X
SD-43	Sediment	0.0 - 1.0	Grab sample – Encore sampler			X						X					X
SD-44	Sediment	0.0 - 1.0	Grab sample – Encore sampler			X						X					X

Abbreviations:

VOCs = volatile organic compounds

SVOCs = semivolatile organic compound

PCBs = polychlorinated biphenyls

PDB = passive diffusion bag

TCL = Target Compound List

TOC = total organic carbon

TAL= Target Analyte List

Sample analyses will be conducted using the following analytical methods:

Target Compound List organics (VOCs, SVOCs, PCBs and pesticides) via SOM01.2, *Contract Laboratory Program (CLP Statement of Work for Organic Analysis)*

Target Analyte List metals and cyanide via ISM01.3, *CLP Statement of Work for Inorganic Analyses*

PCB Congeners via USEPA Method 1668A, *Chlorinated Biphenyl Congeners in Water, Soil, Sediment and Tissue by HRGC/HRMS*

Dioxins and furans via USEPA Method 1613, *Dioxins and Furans in Water, Soil, Sediment and Tissue by HRGC/HRMS.*

Low-level mercury via USEPA Method 1631, Revision E.

Hardness via SM 2340C.

pH via USEPA Method 9045D.

TOC via the Lloyd Kahn method.

Grain size via ASTM D-422.